

## ROYAL ASTRONOMICAL SOCIETY.

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CAPT. W. H. SMYTH, R.N., Vice-President, in the Chair.

Thos. C. Janson, Esq., F.L.S., Stamford Hill, Middlesex, was balloted for, and duly elected a Fellow of the Society.

## FLORA.

## Observations.

MAKERSTOUN. Equatoreal. (Sir T. M. Brisbane &amp; Mr. Brown.)

Date.	Makerstoun			N.P.D.	Star of Comparison.	No. of Obs.	Hind's Ephemeris, — Obs.	
	M.T.	R.A.	N.P.D.				R.A.	N.P.D.
1847.								
Dec. 28	7 52 55	4 12 50.67	74 29 53.9	B.A.C. 1328	5	—	— 0.64	— 4.2
30	8 24 34	11 53.80	74 20 24.4	—	1366	9	0.66	6.3
	8 40 25	53.21	19.5	—	1380	6	0.35	4.5
1848.								
Jan. 5	10 23 47	10 0.35	73 49 37.7	—	1329	15	0.46	— 1.7
7	8 40 13	9 42.55	39 16.9	—	1350	2	— 0.29	+ 0.8
13	7 51 46	9 43.75	—	—	1356	10	+ 0.02	
	7 52 50	73 5 58.1	—	—	1356	6		— 4.1
15	7 17 6	10 2.48	72 54 31.8	—	1346	4	— 0.05	7.1
	7 41 28	2.67	—	—	1356	14	0.03	
	7 41 35	22.6	—	—	1356	8		3.9
18	7 20 44	10 47.83	36 43.4	—	1346	8	0.11	5.3
	8 6 31	48.41	31.9	—	1365	7	0.09	5.2
19	7 28 47	30 40.9	—	—	1365	5		4.7
	7 35 44	11 7.51	—	—	1365	9	0.09	
20	7 29 44	11 29.16	—	—	1365	10	0.12	
	7 45 5	24 34.6	—	—	1365	4		3.9
21	7 31 33	11 53.03	72 18 33.0	—	1365	5	— 0.14	2.5
25	6 51 15	13 47.75	71 54 16.3	Rümker 1162	15	+ 0.25	4.5	
26	7 22 39	14 22.52	47 57.7	—	1162	12	0.33	4.0
31	7 9 29	17 41.65	16 56.7	B.A.C. 1361	8	0.14	0.0	
	7 34 58	42.28	52.1	—	1376	11	0.30	2.0
Feb. 2	7 52 21	4 19 15.70	71 4 20.9	—	1376	15	+ (0.21) — (3.2)	

The observations are corrected for refraction and parallax.

The observations were made by Mr. John Welsh, with a spider's-line micrometer. The apparent place of the compared star has been computed from the catalogue referred to.

## DURHAM. (Prof. Chevallier &amp; Mr. R. A. Thompson.)

	G.M.T.	R.A.	N.P.D.	No. of Comp.	Star.
	h m s	h m s	° ' "		
1847.					
Oct. 27	10 37 35	5 3 52.73		5	<i>a</i>
28	10 39 26	3 42.37		5	<i>a</i>
Nov. 1	10 1 44	2 33.54	76 9 19.4	2	B.Z. iv. 1312
2	11 40 59	5 2 8.63	10 7.9	5	—
9	9 58 47	4 58 19.47	13 21.5	8	— N.P.D. doubtful.
16	11 16 15	52 41.13	13 15.3	4	B.A.C. 1500
19	13 2 23	49 46.28	11 53.9		Meridian.
	12 11 0	48.56	53.4	7	B.A.C. 1500
Dec. 3	12 5 2	34 41.25		6	—
	12 34 3		75 53 31.3	2	— — doubtful.
	10 33 48	26 8.13	75 34 13.4	8	— 1409
1848.					
Jan. 5	10 23 49	10 0.41	73 49 42.1	7	— 1329
11	8 21 5	9 34.29	17 16.5	2	— 1350
13	10 37 48	9 44.63		7	— 1356
	10 37 48	44.62		7	— 1346
	10 21 18		73 5 25.2	7	— 1356
26	8 32 14	14 23.93		9	H.C. 8125
	8 26 20		71 47 39.2	8	—
28	7 48 57	15 37.11	35 25.3	7	B.A.C. 1361
	10 57 10	42.04	34 38.8	1	—
31	6 51 52	17 40.59	17 5.4	8	—
	9 26 14	45.53	16 26.8	1	—
	10 27 49	47.23	16 11.4	4	—
Feb. 1	9 57 16	5 18 31.64	71 10 10.0	10	8 Tauri good.

The observations are chiefly made with the Fraunhofer equatorial: they are corrected for parallax, but not for refraction.

Assumed apparent places of stars compared,—

Mag.	Oct. 27	R.A.	N.P.D.
		h m s	° '
<i>a</i>	9	5 5 58.80	76 4 (approx <sup>t</sup> .)
Bessel Zones iv. 1312	7	4 58 7.74	76 7 15.0

Deduced from 2 comparisons with B.A.C. 1500. The mean places of the other stars are taken from the catalogues cited.

## HAMBURG. Merid. Circle &amp; Transit. (MM. C. &amp; G. Rümker.)

1848.	Hamburg M. T.	R.A.	Transit.	Declin.
		h m s	° ' "	° ' "
Jan. 3	9 20 4.4	62 37 15.7	21.7	+ 15 59 26.0
4	15 53.3	33 27.0	31.5	16 4 35.8
5	11 44.7	30 16.2	17.2	9 48.3
6	7 38.0	27 35.0	...	15 9.6
7	9 3 34.1	25 33.7	34.3	20 29.3
8	8 59 32.8	24 12.9	11.3	25 50.9
12	43 50.1	24 27.9	...	16 48 10.8
16	8 28 44.0	62 33 52.6	57.0	+ 17 11 29.2

The transit observations are by M. G. Rümker.

*Elliptic Elements* by Dr. Brunnow, Director of the Observatory at Bilk, near Düsseldorf.

Epoch 1848, Jan. 0, Berlin Mean Time.

M. ....	35 24 13.86
$\pi$ ....	33 3 5.76
$\Omega$ ....	110 15 2.33
$i$ ....	5 53 34.24
$\psi$ ....	8 58 43.86
$\mu$ ....	1085.5122

Log  $a$  ..... 0.3429133

Sid. Revol. 1193.901 days.

An Ephemeris by Dr. Brunnow, for January, came too late for use.

## IRIS.

### DURHAM.

(Prof. Chevallier & Mr. R. A. Thompson.)

	G.M.T. h m s	R.A. h m s	N.P.D. ° ' "	No. of Obs.	Star.
1847.					
Nov. 16	6 48 57	20 44 46.18	102 29 59.6	3	B.A.C. 7296
17	7 43 50	46 27 54	24 50 7	2	— —
Dec. 8	6 8 22	21 23 19.31		3	B.A.C. 7435
	6 26 31		100 10 25.4	2	— —

The observations are corrected for refraction, but not for parallax.

### Extract of a Letter from Mr. Cooper.

“ Mr. Graham, my first assistant at Markree Observatory, compared *Iris*, on the 24th of January last, with a star of 9.10 mag., not to be found in any catalogue we possess. The apparent place of the star on Jan. 23 was found to be

R.A. 22 57 16.08      N.P.D. 92 27 11.1

by 5 micrometrical comparisons with a star in *Bessel's Zones* and in the *Hist. Cél.* As it seems to be variable, the star is worth attention, and its place may be of use to some planet-hunter.”

## URANUS.

### HAMBURG.

Meridian Circle.

(M. Rümker.)

	Hamburg M.T. h m s	R.A. ° ' "	Dec. ° ' "
1848.			
Jan. 4	6 0 3.3	13 27 54.4	+ 5 4 22.0
5	5 56 10.4	28 27 4	4 35 3
6	5 52 16.2	29 6 3	4 54 6
7	5 48 23.0	13 29 47.1	+ 5 5 15.0